## **ABSTRACT**

In a motor control device according to the invention, upon velocity control of a motor, a superimposed signal generating unit 9 outputs a superimposed signal idh of a repetitive waveform, such as a triangular wave or a sine A d-axis current command generating unit 10 adds wave. the superimposed signal idh generated by the superimposed signal generating unit 9d to a d-axis current command idc\*0 and outputs a d-axis current command idc\*. An axial misalignment detecting unit 11 (11a, 11b, 11c, and 11d) receives the d-axis current command idc\* and a q-axis current command iqc\* and outputs an axial misalignment angle estimation value  $\Delta \theta$ ^. An axial misalignment correction unit 12 receives the axial misalignment angle estimation value  $\Delta \theta$  and an actual detected position  $\theta$ m and outputs a position after correction  $\theta m'$ . Therefore, detection and correction can be performed in real time through calculation at a given timing during a normal operation.